Approved For Release 2002/08/28: CIA-RDP63-00313A000600120018-4

NRO REVIEW COMPLETED

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6 February 1959

HELORANDUM POR THE RECORD

SUBJECT: Trip Report - Program Raview Conference WS 117-L and COROMA

- 1. A briefing concerning the above-mentioned programs was held at Palo Alto on 23 Jermany 1959. In addition, the 22nd of Jermany was spent coordinating and discussing COROMA problems with It. Col. Mathemon, Chief of the Palo Alto Control Center.
- 2. The highlights of the items presented at the briefing are as follows:
 - a. Schedule of CORCHA shots: Because of a rather serious malfunction while attempting to launch the first test vehicle on 21 January, the ability to meet the present Launch schedule was seriously doubted. The exact nature, causes and results of this malfunction were not known at this time. However, following is a brief impression of what happened. The countdown had reached launch minus 60 minutes when the malfunction occurred. At this time the hydraulic system in the Bell Hustler was being tested. When electrical power was applied to this system, several events took place that were supposed to occur in the air, but not during ground test. The Ullage rockets fired, and the explosive bolts that separate the Hustler from the Thor also fired. Fortunately, the Hastler sits in a farring that is attached to the Thor so the Hustler did not fall to the ground. However, the firing of the Ullage rocket did cause some damage. At this time the countdoes was stopped. A proposed revision to the present schedule was discussed. The proposed schedule would result in the first CORONA launching occurring in May 1959. The proposed schedule was not firmed up.

b. Bone	Cone RECOVERY TEST	: Project	has been
	A STATE OF THE PARTY OF THE PAR	mian to the	t nose come ro-entry ket from Hammii into
and recovery	area for an air pie	k-up. In p	lace of

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a balloon drop of the mose come is proposed at Hollison AFB, How Marico. The test will consist of dropping the ness come from 100,000 fest with an air smatch recovery planned. As discussed below, aircraft dropped recovery tests are being performed in the Hemmilian area.

c. Recovery Vahiola Progress: Several items of interest were brought out in the briefing on the recovery system. The first was that the mode 3 parachate has been selected as the chate to be used in the recovery system. The mode 3 chate has a dismeter of \$0.5 feet and a descent rate of 25 feet per second. These chates are in production and have been tested. This fact was not discussed at the briefing, but it was learned later from 0al. Hatheson that three drops had been made in the Hammilian area from a 3-47 aircraft, using the mode3 chate. Two of the drops were recovered by air sanitable. The third was a mater recovery. Because of a beasen malfunction on the name come, the aircraft was not able to locate the third unit. However, surface ship maker did point the come and a water recovery was made. Additional B-47 Grops are planned in the Hammilian area.

Another item of interest in commention with the recovery system is that GE feels they have solved the paradists ejection problem by redecign of the system. Another item discussed was the problem of stability of the some come daying re-entry became it was originally designed for a film load of 40 pounds and this has been reduced to a built load, or 20 pounds. GE indicated that approximately 3 pounds will be required for ballant. Since the ballant will have to be located near the none, the addition of more film will not aske the problem. It is planned to use an instrument package for ballant.

- d. Proof Communition Satinates: The briefing on power supply we power communition indicates that there is adequate power for 24 hours, but not enough for a two day time in orbit. This is principly true because 70% of the required power land is estimated to be last. Also considerable power is required on passive orbits (camera not operating) to keep the satellite stabilized. The watthours spaintable and required are shown in attackment fil.
- e. Component Parts Colockies: Nucle time was spent in conmideration of the present delivery schedules of the congruent parts. Without going into detail, it appears that the schedules are very

tight and some clippage could occur. The program is so integrated that a slippage in any places would probably cause a slip in the proposed launch schedule. The details of these schedules are contained in the photostatic copy of the briefing side which is an attachment to this report.

2. Comes Entreet and File Rendling Procedures After is properties a separate report that will cover those two subjects.

-). The items discussed outside the brising are as follows:
- at the Pale Alic Control Center experienced any difficulty with the Command Post Empedes conducted between Project Headquarters and Heller during the week 19 through 23 January. Homoges were passed both by phone and courier between Heller and Pale Alto. In consection with this, Headquarters plans to conduct a CPX approximately every three weeks.
- b. Commissions at Pale Alte Control Center: The decision was made by not to establish a communications senter at Pale Alto in view of the security problems involved.
- The recision to the Progress Report

 The addition to the Reports Control Manual was also discussed.

 A progress addition to the Reports Control Manual was also discussed.

 The addition will provide Readquarters with the spheneris data approximately two weeks prior to each lamath. This addition will be published in early Priorway. Since Readquarters desires information on Imanches other than CORONA, Palo Alto agreed to send the will provide Readquarters desires information of Imanches other than CORONA, Palo Alto agreed to send the will provide Readquarters with estimated time of Research, actual time of Research or about, and progress of the satellite once it is in orbit.

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d. Committeel Flanning Factors: Several planning factors were disconnect that are of operational interest. One of those is the film supply anathetic which will be covered in report. 25X1 another is that if the launch is stopped after factor are started,

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a 48 hour delay is required before another attempt at laureh. This presents a serious limitation since the countdown for the present vehicle calls for some fueling at launch minus 5 hours. Undoubtedly this will be reduced in later launches. Also, the present schedule for launch asimuth calls for CORONA units to be launched on a true eximith of 1840.

> C. L. WEPEY Hajor USAF

Att: Chart

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1 - Dir Ope, DPD w/att

2 - Dep Dir, DPD

3 - Admin, DPD 4 - Cover, DPD

5 - SO, DPD 6 - COR chron